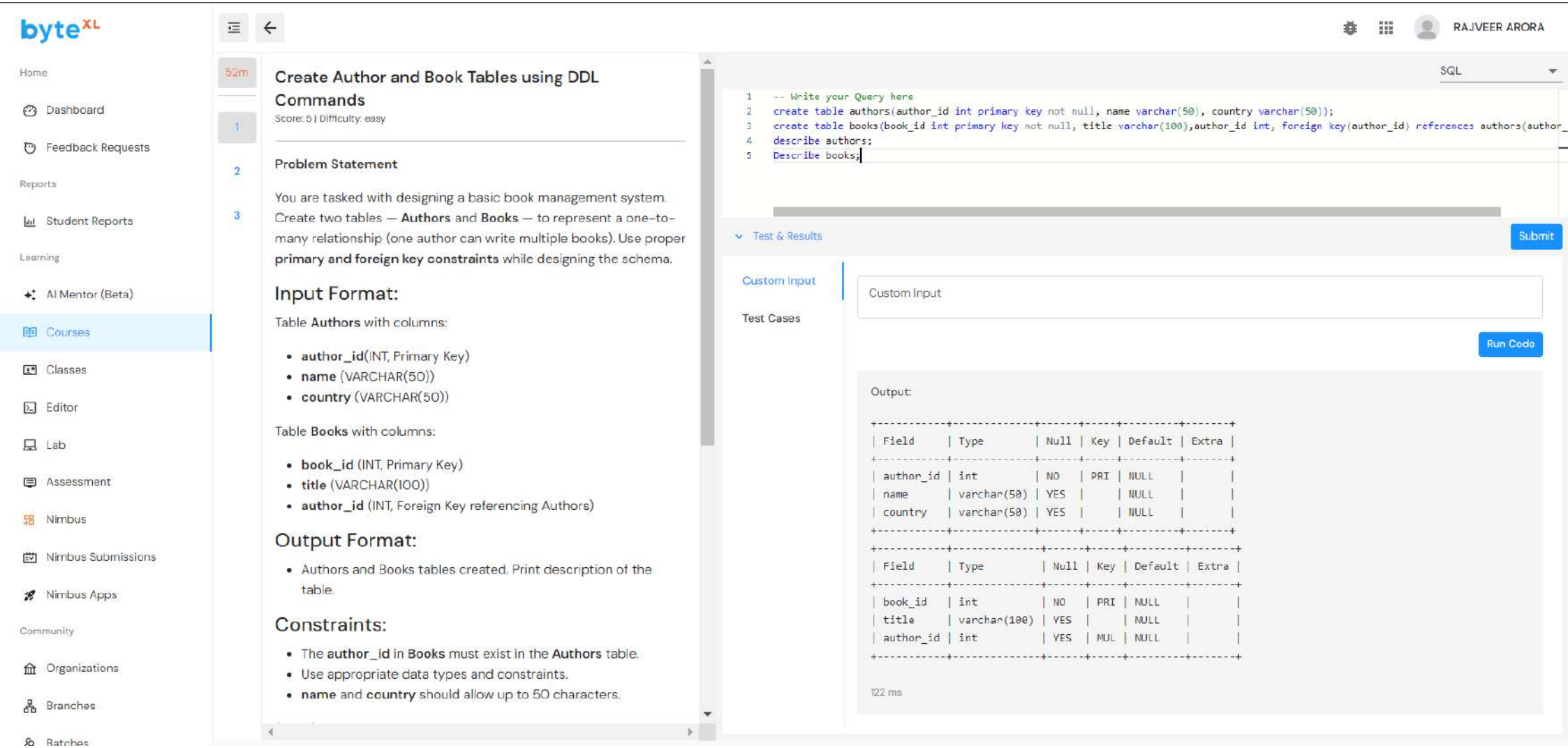
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Create Author and Book Tables using DDL Commands
Score: 5 | Difficulty: easy
Problem Statement
You are tasked with designing a basic book management system. Create two tables — Authors and Books — to represent a one-to-many relationship (one author can write multiple books). Use proper primary and foreign key constraints while designing the schema.
Input Format:
Table Authors with columns:
author_id(INT, Primary Key)
name (VARCHAR(50))
country (VARCHAR(50))
Table Books with columns:
book_id (INT, Primary Key)
title (VARCHAR(100))
author_id (INT, Foreign Key referencing Authors)
Output Format:
Authors and Books tables created. Print description of the table.
Constraints:
The author_id in Books must exist in the Authors table.
Use appropriate data types and constraints.
name and country should allow up to 50 characters.
SQL
1 -- Write your Query here
2 create table authors(author_id int primary key not null, name varchar(50), country varchar(50));
3 create table books(book_id int primary key not null, title varchar(100),author_id int, foreign key(author_id) references authors(author_
4 describe authors;
5 Describe books;
Test & Results
Submit
Custom Input
Test Cases
Custom Input
Run Code
Output:
+-----------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
author_id	int	NO	PRI	NULL	
name	varchar(50)	YES		NULL	
country	varchar(50)	YES		NULL	
+-----------+-------------+------+-----+---------+-------+
+-----------+-------------+------+-----+---------+-------+
| Field | Type | Null | Key | Default | Extra |
+-----------+-------------+------+-----+---------+-------+
book_id	int	NO	PRI	NULL	
title	varchar(100)	YES		NULL	
author_id	int	YES	MUL	NULL	
+-----------+-------------+------+-----+---------+-------+
122 ms

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52m

1 2 3

Insert Sample Records into Author and Book Tables

Score: 5 | Difficulty: easy

Problem Statement

After creating the Authors and Books tables, your next task is to insert sample records. Insert **at least 3 authors and 3 books,** ensuring books reference valid authors using the foreign key.

Input Format:

- Pre-existing Authors and Books table structures from Problem 1.

Output Format:

`Authors` Table:

author_id	name	country
1	Ashish	India
2	Smaran	USA
3	Vaibhav	UK

`Books` Table:

book_id	title	author_id
101	Data Science Basics	1
102	AI in Education	2
103	SQL Simplified	1

Constraints:

SQL

```
1  -- Write your Query here
2  insert into authors values(1, 'Ashish', 'India'),(2, 'Smaran', 'USA'),(3, 'Vaibhav', 'UK');
3  insert into books values(101,'Data Science Basics',1),(102,'AI in Education',2),(103,'SQL Simplified',1);
4  select * from authors;
5  select * from books;
```

Test & Results

Submit

Custom Input

Test Cases

Custom Input

Run Code

Output:

```
+-----------+---------+---------+
| author_id | name    | country |
+-----------+---------+---------+
|         1 | Ashish  | India   |
|         2 | Smaran  | USA     |
|         3 | Vaibhav | UK      |
+-----------+---------+---------+
+---------+---------------------+-----------+
| book_id | title               | author_id |
+---------+---------------------+-----------+
|     101 | Data Science Basics |         1 |
|     102 | AI in Education     |         2 |
|     103 | SQL Simplified      |         1 |
+---------+---------------------+-----------+
```

184 ms

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1

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3

Retrieve Book Titles Along with Author Information Using INNER JOIN

Score: 5 | Difficulty: easy

Problem Statement

Given two tables, Authors and Books, retrieve the titles of all books along with their **author's name and country**. This involves creating tables, inserting data, and using an INNER JOIN to combine records based on author_id.

Input Format:

- Pre-existing Authors and Books table structures from Problem 1.

Table **Authors** with columns:

- **author_id** (INT, Primary Key)
- **name** (VARCHAR(50))
- **country** (VARCHAR(50))

Table **Books** with columns:

- **book_id** (INT, Primary Key)
- **title** (VARCHAR(100))
- **author_id** (INT, Foreign Key referencing Authors)

Output Format:

- A list of books with their **title, name** of the author, and **country** of the author.

Constraints:

- Each book must be linked to one valid author.

SQL

```sql
-- Write your Query here
select b.title, a.name, a.country from Authors a inner join Books b on a.author_id = b.author_id;
```

Test & Results

Submit

Custom Input

Test Cases

Custom Input

Run Code

Output:

```
+--------------------+--------+---------+
| title              | name   | country |
+--------------------+--------+---------+
| Data Science Basics | Ashish | India   |
| AI in Education    | Smaran | USA     |
| SQL Simplified     | Ashish | India   |
+--------------------+--------+---------+
```

183 ms